

INDEX TO VOLUME XV

A

- Accipiter atricapillus striatulus, 203
 velox, 229
Actitis macularius, 22, 115, 139, 148, 203
Aechmophorus occidentalis, 20, 116
Aegialitis nivosa, 22, 117, 147, 150
Aeronautes melanoleucus, 23
Agelaius phoeniceus californicus, 116, 228
 phoeniceus neutralis, 23, 111, 113, 116
 phoeniceus sonoriensis, 113
 tricolor, 116
Aimophila ruficeps ruficeps, 23, 188
 ruficeps scotti, 227
Albatross, Laysan, 158
Aluco pratincola, 22, 210
Amphispiza belli, 23
 bilineata deserticola, 23, 111, 229
Anas platyrhynchos, 476
Anhinga anhinga, 182
Anthus rubescens, 24
Aphelocoma insularis, 91
 sieberi arizonae, 227
Aphriza virgata, 5, 22
Aquila chrysaetos, 119, 203
Archibuteo ferrugineus, 92
Archilochus alexandri, 43, 118
Ardea herodias herodias, 21, 50, 91, 118, 210
 herodias hyperonca, 50
 herodias oligista, 50
Arenaria interpres morinella, 22, 91
 melanocephala, 22
Arremonops rufivirgatus, 183
Asio flammeus, 121
 wilsonianus, 17, 182
Astragalinus psaltria hesperophilus, 23
Astur atricapillus striatulus, 129
Asyndesmus lewisi, 119
Auklet, Cassin, 20, 86, 88, 89, 93
Avocet, 16, 117, 141, 142, 218

B

- Bailey, B., some winter notes from the Bitter Root Valley, Montana, 94; some 1913 spring notes from the Bitter Root Valley, Montana, 184
Bailey, H. H., review of his "the birds of Virginia," 233
Bailey, V., review of his "life zones and crop zones of New Mexico," 232
Baldfate, 21, 184
Beal, F. E. L., review of his "food of our more important flycatchers," 46
Beck, R. H., Communication—"Collecting in Peru," 187
Bigglestone, H. C., review of his "a study of the nesting behavior of the Yellow Warbler (*Dendroica aestiva aestiva*)," 231

Bittern, 157

- Least, 154, 156
Blackbird, Bicolored, 50, 228
 Brewer, 121, 157
 Red-winged, 94, 113
 Tri-colored, 116, 157
 Yellow-headed, 113, 157
Bluebird, Eastern, 184
 Mountain, 85, 199, 203
 Western, 119, 156

Bombycilla cedrorum, 129, 188

- Bowles, J. H., white-throated sparrow in western Washington, 41
Brachyramphus hypoleucus, 20, 89, 208
Brant, Black, 21
Branta nigricans, 21
Brooks, Allan, unusual records for California, 182

Brown, H., obituary notice of, 186; photo of, 186

- Bryant, H. C., review of Beal's "food of our more important flycatchers," 46; review of Hammond's "an investigation concerning the food of certain birds," 48; review of his "birds in relation to a grasshopper outbreak in California," 49; the results of some miscellaneous stomach examinations, 92; review of McAtee's "index to papers relating to the food of birds in the publications of the United States Department of Agriculture, 1885-1911," 132; review of Henderson's "the practical value of birds," 159; review of "fifty common birds of farm and orchard," 189; review of H. C. Bigglestone's "a study of the nesting behavior of the yellow warbler (*Dendroica aestiva aestiva*)," 231

Bubo virginianus arcticus, 41

 virginianus pacificus, 92

Bunting, Lazuli, 23, 118, 157

Snow, 226

Bush-tit, California, 92

Coast, 156

Buteo borealis calurus, 201, 203

Butorides virescens anthonyi, 118

C

- Calamospiza melanocorys, 183
Callipepla squamata, 227
 squamata castanogastris, 182
Calypte anna, 23, 129, 156, 184
 costae, 23
Canis ochropus, 119
Caracara, Guadalupe, 228, 229
Cardinalis cardinalis cardinalis, 121
Carpodacus cassini, 84, 203
 mexicanus clementis, 23, 91
 mexicanus frontalis, 23, 119, 184, 200

INDEX TO VOLUME XV

A

- Accipiter atricapillus striatulus, 203
 velox, 229
Actitis macularius, 22, 115, 139, 148, 203
Aechmophorus occidentalis, 20, 116
Aegialitis nivosa, 22, 117, 147, 150
Aeronautes melanoleucus, 23
Agelaius phoeniceus californicus, 116, 228
 phoeniceus neutralis, 23, 111, 113, 116
 phoeniceus sonoriensis, 113
 tricolor, 116
Aimophila ruficeps ruficeps, 23, 188
 ruficeps scotti, 227
Albatross, Laysan, 158
Aluco pratincola, 22, 210
Amphispiza belli, 23
 bilineata deserticola, 23, 111, 229
Anas platyrhynchos, 476
Anhinga anhinga, 182
Anthus rubescens, 24
Aphelocoma insularis, 91
 sieberi arizonae, 227
Aphriza virgata, 5, 22
Aquila chrysaetos, 119, 203
Archibuteo ferrugineus, 92
Archilochus alexandri, 43, 118
Ardea herodias herodias, 21, 50, 91, 118, 210
 herodias hyperonca, 50
 herodias oligista, 50
Arenaria interpres morinella, 22, 91
 melanocephala, 22
Arremonops rufivirgatus, 183
Asio flammeus, 121
 wilsonianus, 17, 182
Astragalinus psaltria hesperophilus, 23
Astur atricapillus striatulus, 129
Asyndesmus lewisi, 119
Auklet, Cassin, 20, 86, 88, 89, 93
Avocet, 16, 117, 141, 142, 218

B

- Bailey, B., some winter notes from the Bitter Root Valley, Montana, 94; some 1913 spring notes from the Bitter Root Valley, Montana, 184
Bailey, H. H., review of his "the birds of Virginia," 233
Bailey, V., review of his "life zones and crop zones of New Mexico," 232
Baldfate, 21, 184
Beal, F. E. L., review of his "food of our more important flycatchers," 46
Beck, R. H., Communication—"Collecting in Peru," 187
Bigglestone, H. C., review of his "a study of the nesting behavior of the Yellow Warbler (*Dendroica aestiva aestiva*)," 231

Bittern, 157

- Least, 154, 156
Blackbird, Bicolored, 50, 228
 Brewer, 121, 157
 Red-winged, 94, 113
 Tri-colored, 116, 157
 Yellow-headed, 113, 157
Bluebird, Eastern, 184
 Mountain, 85, 199, 203
 Western, 119, 156

Bombycilla cedrorum, 129, 188

- Bowles, J. H., white-throated sparrow in western Washington, 41
Brachyramphus hypoleucus, 20, 89, 208
Brant, Black, 21
Branta nigricans, 21
Brooks, Allan, unusual records for California, 182

Brown, H., obituary notice of, 186; photo of, 186

- Bryant, H. C., review of Beal's "food of our more important flycatchers," 46; review of Hammond's "an investigation concerning the food of certain birds," 48; review of his "birds in relation to a grasshopper outbreak in California," 49; the results of some miscellaneous stomach examinations, 92; review of McAtee's "index to papers relating to the food of birds in the publications of the United States Department of Agriculture, 1885-1911," 132; review of Henderson's "the practical value of birds," 159; review of "fifty common birds of farm and orchard," 189; review of H. C. Bigglestone's "a study of the nesting behavior of the yellow warbler (*Dendroica aestiva aestiva*)," 231

Bubo virginianus arcticus, 41

 virginianus pacificus, 92

Bunting, Lazuli, 23, 118, 157

Snow, 226

Bush-tit, California, 92

Coast, 156

Buteo borealis calurus, 201, 203

Butorides virescens anthonyi, 118

C

- Calamospiza melanocorys, 183
Callipepla squamata, 227
 squamata castanogastris, 182
Calypte anna, 23, 129, 156, 184
 costae, 23
Canis ochropus, 119
Caracara, Guadalupe, 228, 229
Cardinalis cardinalis cardinalis, 121
Carpodacus cassini, 84, 203
 mexicanus clementis, 23, 91
 mexicanus frontalis, 23, 119, 184, 200

Cathartes aura septentrionalis, 22, 218
 Catoptrophorus semipalmatus, 145, 146
 semipalmatus inornatus, 145, 146
 Cedar-bird, 155
 Centurus carolinus, 120
 Cephus columba, 89
 Certhia familiaris zelotes, 85, 203
 Ceryle alcyon, 22, 202
 Chaetura vauxi, 188
 Chamaea fasciata, 179
 Chambers, W. L., more band-tailed pigeon notes, 41
 Charadrius apricarius, 197
 dominicus dominicus, 147, 150, 197
 pluvialis, 197
 Chat, Long-tailed, 119
 Chaulelasmus streperus, 21, 184
 Chen caerulescens, 43
 hyperboreus hyperboreus, 43
 Chickadee, Mountain, 85, 198, 200, 203
 Chondestes grammacus strigatus, 119
 Chordeiles acutipennis texensis, 184
 virginianus hesperis, 92, 203
 Cinclus mexicanus unicolor, 203
 Circus hudsonius, 22, 99
 Clarke, F. C., preliminary report upon the disease occurring among the ducks of the southern San Joaquin Valley during the fall of 1913, 214
 Clay, C. I., artificial hatching of a Cassin auklet, 93; a winter home of the Anna hummingbird, 184
 Coccothraustes vespertinus montanus, 84
 Colaptes auratus luteus, 120
 cafer collaris, 91, 119, 182, 203
 Columba fasciata, 26, 41, 94, 129, 151, 227
 Colymbus nigricollis californicus, 20, 41, 119
 Cooke, W. W., the wild turkeys of Colorado, 104
 Cooper Ornithological Club, directory of members of the, 160; minutes of meetings, 51, 97, 133, 160, 189, 236; report of business manager of the, 95
 Coot, 21, 119, 154, 156, 218, 220
 Cormorant, Baird, 21, 87, 90
 Brandt, 20, 86, 88, 90, 156, 208, 209, 210
 Farallon, 20, 90, 116, 120, 156, 207, 208, 209, 217, 228
 Corvus brachyrhynchos brachyrhynchos, 182
 corax sinuatus, 23, 91
 Coyote, Valley, 119
 Crane, Sandhill, 218
 Creeper, Sierra, 81, 85, 203
 Crossbill, Sierra, 203
 Curlew, Hudsonian, 22, 155, 156
 Long-billed, 116, 143, 148
 Cyanocitta stelleri frontalis, 84, 203
 Cyanolaemus clemenciae, 41
 Cyrtonyx montezumae mearnsi, 227

D

Dafila acuta, 217

Daggett, F. S., another instance of cannibalism in the spotted owl, 40
 Darter, 182
 Dawson, W. L., a glimpse of surf-birds, 5; an unfortunate dove, 42; the nesting of the prairie falcon in San Luis Obispo County, 55; Allan Brooks—an appreciation, 69; the all-day test at Santa Barbara, 153; Scott oriole (*Icterus parisorum*) at Santa Barbara, 158; a mnemonic device for color workers based on a consideration of Ridgway's "color standards and nomenclature," 211; a practical system of color designation, a partial critique of Ridgway's "color standards and nomenclature," 212; identification by camera, 204; review of *The Auk* for July, 1913, 234; review of *Bird-Lore* for September-October, 1913, 234.
 Dendragapus obscurus sierrae, 203
 Dendrocygna bicolor, 21, 118
 Dendroica aestiva brewsteri, 84, 202, 203
 auduboni, 24, 85, 113, 203
 coronata, 131
 coronata hooveri, 131
 nigrescens, 111
 occidentalis, 188
 Diomedea immutabilis, 158
 Dipper, American, 203
 Directory of members of the Cooper Ornithological Club, 160
 Dixon, J., communication from, collecting in Alaska, 159
 Dove, Mourning, 42, 94, 183
 Western Mourning, 22, 91, 156
 Dowitcher, Long-billed, 75, 157, 205
 Dryobates nuttalli, 119
 pubescens medianus, 120
 pubescens turati, 119
 villosum hyloscopus, 119, 203
 villosum villosum, 120
 Duck, Fulvous Tree, 21, 118, 120
 Lesser Scaup, 21
 Ruddy, 21, 118, 120, 154, 156
 Dunlin, 139, 146, 194, 195

E

Eagle, Bald, 22, 86, 91
 Golden, 119, 203
 Ectopistes migratorius, 26
 Editorial Notes and News, 44, 95, 130, 159, 185, 230
 Egret, 118, 129
 Snowy, 155, 156
 Elanus leucurus, 184
 Empidonax difficilis difficilis, 23, 91
 griseus, 110, 229
 trailli trailli, 83, 119, 202
 wrighti, 203
 Erismatura jamaicensis, 21, 118
 Euphagus cyanocephalus, 183

F

- Falco mexicanus*, 41, 55
peregrinus anatum, 22, 91
sparverius phalaena, 22
sparverius sparverius, 91
Falcon, *Prairie*, 55, 157
Figgins, J. D., the status of the Gambel quail in Colorado, 158
Finch, California Purple, 157
 Cassin Purple, 84, 137, 203
 House, 23, 154, 200, 201
 Rosy, 76
 San Clemente House, 23, 91
 Sierra Nevada Rosy, 77
Flicker, Red-shafted, 91, 119, 156, 182, 203
Florida caerulea, 188
Flycatcher, Ash-throated, 157
 Gray, 110, 229
 Hammond, 86
 Olive-sided, 82, 83, 156, 203
 Scissor-tailed, 182
 Traill, 83, 119, 202
 Western, 23, 91, 156
 Wright, 157, 203
Forbush, E. H., review of his "a history of the game birds, wild-fowl and shore birds of Massachusetts and adjacent states," 47
Fox, V. F., some rare transients of the Corral de Quati Ranch, 129
Fry, W., review of his "check-list of the birds of the Sequoia and General Grant National Parks," 188
Fulica americana, 21, 119, 218
Fulmar, Pacific, 20
Fulmarus glacialis glupischa, 20

G

- Gadwall, 21
Gallinago delicata, 21, 144, 145
gallinago, 139, 144, 194
Gavia immer, 20
 lumme, 41
 pacifica, 20
Geococcyx californianus, 92
Geothlypis trichas arizela, 24
Gilbert, C. H., a northern winter station for the band-tailed pigeon, 94
Gnatcatcher, Black-tailed, 24
 Western, 24, 111, 157
Godwit, Black-tailed, 145, 146, 195
 Hudsonian, 146
 Marbled, 21
Goldfinch, Green-backed, 23, 157
 Lawrence, 157
 Willow, 157
Goose, Blue, 43
Goshawk, Western, 129, 203
Grackle, Great-tailed, 183
Grebe, Eared, 20, 119, 155, 156
 Pied-billed, 156
 Western, 20, 116, 155, 156, 157

- Grey*, H., Harris hawk in California, 128; American egret in San Diego County, 129; western goshawk in California, 129
Grinnell, J., the outlook for conserving the band-tailed pigeon as a game bird of California, 25; review of Forbush's "a history of the game birds, wild fowl and shore-birds of Massachusetts and adjoining states," 47; review of Stone's "the phylogenetic value of color characters in birds," 47; review of Miller's "contributions to avian paleontology from the Pacific Coast of North America," 48; review of Bryant's "birds in relation to a grasshopper outbreak in California," 49; *Leucosticte tephrocotis dawsoni*—a new race of rosy finch from the Sierra Nevada, 76; call-notes and mannerisms of the wren-tit, 178; review of Fry's "check-list of the birds of the Sequoia and General Grant National Parks," 188; review of Bailey's "the birds of Virginia," 233; review of the "catalogue of a collection of books on ornithology in the library of John E. Thayer," by E. Thayer and V. Keyes, 233

- Grosbeak*, Black-headed, 92, 94, 119, 203
 California Pine, 86, 203
 Pacific Black-headed, 157
 Rocky Mountain Pine, 106
 Western Blue, 116, 129
 Western Evening, 84, 137, 203
Grouse, Sharp-tailed, 121
 Sierra, 198, 201, 203
Grus mexicana, 182, 208
Guillemot, Pigeon, 88, 89
Guiraca caerulea lazula, 116, 129
Gull, Bonaparte, 20, 80, 117, 156, 157
 California, 20, 117, 157
 Glaucous, 154, 156, 157
 Heermann, 20, 89, 209
 Herring, 20, 156, 157
 Sabine, 227
 Western, 20, 89, 154, 156, 208

H

- Haematopus bachmani*, 22, 91, 149, 210
frazari, 22, 210
ostrolegus, 149, 151, 198
pallidus, 149, 151
Haliaeetus leucocephalus leucocephalus, 22, 91
Hammond, J., review of his "an investigation concerning the food of certain birds," 48
Hanford, F. S., Sierra storms and birds, 137
Hawk, Cooper, 157
 Desert Sparrow, 22
 Duck, 22, 91
 Ferruginous Rough-legged, 92
 Harris, 128
 Marsh, 22, 99, 121

Hawk, Red-bellied, 228
 Sharp-shinned, 157, 229
 Sparrow, 91, 156
 Western Red-tailed, 154, 156, 199, 201

Hen, Prairie, 121
 Henderson, J., concealing and revealing coloration of animals, 8; review of McAtee's "the experimental method of testing the efficiency of warning and cryptic coloration in protecting animals from their enemies," 47; review of his "practical value of birds," 159

Herodias egretta, 118, 129
 Heron, Anthony Green, 118, 157
 Black-crowned Night, 117, 118, 156
 Great Blue, 21, 50, 91, 118, 210
 Hyperonca Blue, 155, 156
 Snowy, 157

Hersey, L. J., Gambel quail (*Lophortyx gambeli*) in Colorado, 93

Hesperiphona vespertina montana, 203

Heteractitis incanus, 21

Himantopus avocetta, 194
 melanopterus, 194
 mexicanus, 117, 142, 144, 147, 218

Hirundo erythrogaster, 23, 91
 Howell, A. B. [with Lamb, C.J.], notes from Buena Vista Lake and Fort Tejon, 115

Huey, L. M., with the band-tailed pigeon in San Diego County, 151; nesting notes from San Diego County, 228; spotted owls in San Diego County, 229

Hummingbird, Allen, 154, 156, 184, 205
 Anna, 23, 129, 184
 Black-chinned, 43, 118, 156
 Blue-throated, 41
 Calliope, 203, 232
 Costa, 23
 Rufous, 157

Hydrochelidon nigra surinamensis, 112, 118
 Hylocichla fuscescens salicicola, 229
 guttata sequoiensis, 115, 203
 usulata usulata, 85, 203

I

Ibis, White-faced Glossy, 118
 Icteria virens longicauda, 119
 Icterus cucullatus nelsoni, 227
 melanocephalus auduboni, 183
 parisorum, 119, 158, 232
 Ingersoll, A. M., great destruction of birds' eggs and nestlings in the Sierra Nevada, 81
 Iridoprocne bicolor, 23, 84, 113, 203

J

Jaeger, Parasitic, 157
 Jay, Arizona, 227
 Blue-fronted, 84, 157, 199, 203
 California, 156
 Santa Cruz Island, 91

Jewett, S. G., two stragglers on the Oregon coast, 226; three new birds from eastern Oregon, 229
 Junco hyemalis, 131
 hyemalis mearnsi, 111
 oreganus, 131
 oreganus shufeldti, 111, 188
 oreganus thurberi, 84, 115, 119, 203
 Junco, Pink-sided, 111
 Shufeldt, 111
 Sierra, 84, 115, 199, 200, 203
 Thurber, 119, 138

K

Kaeding, H. B., communication from, 96; obituary notice of, 159, 191
 Keezel, C. C., review of her "bird study note book", 232
 Kennedy, C. H., a nest of the dusky horned lark, 135; mourning dove in the Lower Yakima Valley, Washington, 183
 Keyes, V. [and Thayer, E.J.], review of their "catalogue of a collection of books on ornithology in the library of John E. Thayer", 233
 Killdeer, 50, 94, 117, 147, 150, 156, 157, 205, 213
 Kingbird, Arkansas, 46, 110, 116, 119
 Cassin, 23, 110, 154, 156
 Western, 154, 156
 Kingfisher, Belted, 22, 154, 156, 202
 Kinglet, Ruby-crowned, 85, 113, 199, 200, 203
 Western Golden-crowned, 85
 Kite, White-tailed, 157, 184
 Knot, 157

L

Lacey, John Fletcher, obituary notice of, 230
 Lamb, C. [with Howell, A. B.], notes from Buena Vista Lake and Fort Tejon, 115
 Lanius ludovicianus excubitorides, 232
 ludovicianus gambeli, 18
 Lanivireo solitarius cassini, 118
 solitarius plumbeus, 111
 Lapwing, 149, 150, 197
 Lark, California Horned, 156
 Dusky Horned, 135
 Island Horned, 91
 Larus argentatus, 20
 californicus, 20, 117
 heermanni, 20, 89, 209
 occidentalis, 20, 89, 208
 philadelphicus, 20, 117
 hyperboreus, 154
 Leucosticte, Gray-crowned, 203
 Leucosticte tephrocotis *dawsoni*, 76
 tephrocotis tephrocotis, 77, 131, 203
 Limosa fedoa, 21
 haemastica, 146
 limosa, 145, 146, 195
 Linnet, 119, 184
 California, 157

- Lobipes lobatus*, 193, 218
Loon, 20, 157
 Pacific, 20, 157
Lophortyx californica, 158
californica vallicola, 17, 22
gambeli, 93, 158
Loxia curvirostra bendirei, 203
Lunda cirrhata, 88

M

- Machetes pugnax*, 141, 148, 196
Mailliard, J., the black-chinned hummingbird in Marin County, California, 43; the Stephens fox sparrow in Marin County, California, once more, 93; Henry Barroilhet Kaeding, 191; some curious nesting places of the Allen hummingbird on the Rancho San Geronimo, 205; dry season notes, 228
Mallard, 94, 121, 176
Mareca americana, 21, 184
Marila affinis, 21
americana, 120
Martin, Western, 119, 156
Massey, H., notes on the eggs of the North American Limicole, referring principally to the accidental visitors, 193
McAtee, W. L., review of his "experimental method of testing the efficiency of warning and cryptic coloration in protecting animals from their enemies", 47; review of his "index to papers relating to the food of birds in the publications of the United States Department of Agriculture, 1885-1911," 132
Meadowlark, Western, 23, 91, 93, 94, 157
Megaquiscalus major macrourus, 183
Melanerpes formicivorus formicivorus, 227
formicivorus bairdi, 119
Meleagris gallopavo, 104
gallopavo merriami, 104, 105
gallopavo mexicana, 104
gallopavo silvestris, 105
Melopelia asiatica trudeau, 182
Melospiza lincolni lincolni, 203
melodia cooperi, 23
melodia graminea, 91
melodia inexpectata, 131
melodia montana, 203
Merganser, Red-breasted, 21, 156, 157
Mergus serrator, 21
Miller, L., a specimen of Bendire thrasher in the San Diegan region, 41; review of his "contributions to avian Palaeontology from the Pacific Coast of North America," 48; late fall occurrence of the black-headed grosbeak, 92
Mimus polyglottos leucopterus, 24
Minutes of Cooper Club Meetings, 51, 97, 133, 160, 189, 236
Mockingbird, Western, 24, 156, 228

- Mudhen*, 218
Murie, O. J., unusual nesting site of the mallard, 176
Murre, California, 88, 89
Murrelet, Xantus, 20, 87, 89, 208
Muscivora forficata, 182
Myadestes townsendi, 94
Myers, H. W., early arrival of the black-headed grosbeak, 94
Myiochanes richardsoni richardsoni, 23, 83, 203

N

- Nannus hiemalis hiemalis*, 121
Nelson, E. W., obituary of Herbert Brown, 186
Nettion carolinense, 118, 217
Nighthawk, Pacific, 82, 92, 203
 Texas, 184
Nucifraga columbiana, 203
Numenius americanus, 116, 143, 148, 150
hudsonicus, 22
phaeopus, 143, 148, 196
Nutcracker, Clarke, 86, 203
Nuthatch, Pigmy, 198
 Red-breasted, 203
 Slender-billed, 85, 119, 203
Nuttallornis borealis, 83, 203
Nycticorax nycticorax naevius, 117

O

- Oberholser*, H. C., review of his "a revision of the forms of the great blue heron (*Ardea herodias Linnaeus*)", 50; review of Ridgway's "color standards and color nomenclature," 131
Oceanodroma homochroa, 89, 229
leucorhoa, 158
Ochthodromus wilsonius, 147, 150
Odemis perspicillata, 21, 41
Oporornis tolmiei, 85
Oreortyx picta plumifera, 83, 203
Oreoscopetes montanus, 183
Oreospiza chlorura, 84, 203
Oriole, Arizona Hooded, 156, 157, 227, 228
 Bullock, 50
 Scott, 119, 158, 232
Osprey, American, 22, 210
Otocoris alpestris insularis, 91
alpestris merrilli, 135
Otus asio bendirei, 156
asio mccalli, 182
Owl, Barn, 22, 157, 210
 Burrowing, 18, 22, 157
 California Pigmy, 157
 California Screech, 156
 Long-eared, 17
 Pacific Horned, 92, 154, 156, 228
 Short-eared, 121
 Spotted, 40, 229
Oxyechus vociferus, 117, 147, 150, 218

Oyster-catcher, 149, 150, 198
 Black, 22, 87, 91, 149, 210
 European, 149, 151
 Frazar, 22, 210

P

Palmer, T. S., obituary notice of Major John Fletcher Lacey, 230

Pandion haliaetus carolinensis, 22, 210
 Parabuteo unicinctus harrisi, 128
 Passerculus beldingi, 23
 sandwichensis bryanti, 182
 Passerella iliaca altivagans, 131
 iliaca megarhyncha, 84, 203
 stephensi, 93

Passerherbulus lecontei, 183

Passerina amoena, 23, 118

Pelecanus californicus, 21, 90, 117, 210, 228
 erythrorhynchos, 116, 217, 228

Pelican, California, Brown, 21, 86, 90, 155, 156,
 157, 209, 210, 228

White, 116, 217, 228

Pelidna alpina alpina, 139, 146, 195

Penthestes gambeli gambeli, 85, 203

Petrel, Ashy, 88, 89, 229

Black, 87, 90

Leach, 158

Socorro, 87, 90

Petrochelidon lunifrons lunifrons, 23

Peucaea cassini, 183

Pewee, Western Wood, 23, 81, 83, 156, 199,
 200, 203

Phainopepla, 154, 156

Phalacrocorax auritus albociliatus, 20, 90, 116,
 209, 217, 228

pelagicus resplendens, 21, 90

penicillatus, 20, 90, 210

Phalaenoptilus nuttalli nitidus, 182

Phalarope, Grey, 193

Northern, 156, 157, 193, 205, 218

Red, 21, 139, 140, 142, 193

Red-necked, 193

Wilson, 113, 139, 140, 142, 157, 184, 193,
 200

Phalaropus fulicarius, 21, 139, 142, 193

hyperboreus, 193

tricolor, 193

Philohela minor, 141, 144

Phoebe, Black, 23, 91, 156

Eastern, 182

Say, 23

Pierce, W. M., nesting of the band-tailed
 pigeon, 227

Pigeon, Band-tailed, 25, 41, 94, 129, 151, 227
 Passenger, 26

Pinicola californica, 203
 enucleator californica, 188
 enucleator montana, 106

Pintail, 118, 155, 156, 157, 217, 220

Pipilo crissalis crissalis, 119
 crissalis senicula, 23
 fuscus mesoleucus, 227

Pipilo maculatus, 167
 maculatus arcticus, 173, 175
 maculatus clementae, 91, 168, 169, 172, 175
 maculatus curtatus, 168, 169, 173, 175
 maculatus falcifer, 168, 169, 171, 175
 maculatus **falcinellus**, 168, 169, 172, 175
 maculatus megalonyx, 168, 169, 170, 175
 maculatus montanus, 188
 maculatus oregonus, 172, 175

Pipit, 24

American, 157

Piranga ludoviciana, 23, 84, 203
 rubra cooperi, 232

Pisobia bairdi, 184
 minutilla, 21

Planesticus migratorius caurinus, 131
 migratorius migratorius, 131
 migratorius propinquus, 19, 85, 115, 131,
 203

Plectrophenax nivalis nivalis, 226

Plegadis guarauna, 118

Plover, American Golden, 197

Black-bellied, 22, 155, 156

European Golden, 197

Golden, 147, 150

Mountain, 147, 150

Semipalmated, 155, 156

Snowy, 22, 117, 147, 150, 155, 156, 157

Wilson, 147, 150

Podasocys montanus, 147, 150

Polioptila caerulea obscura, 24, 111
 californica, 24

Polyborus lutosus, 229

Poorwill, Dusky, 157

Porzana carolina, 21, 112, 128

noveboracensis, 22

Progne subis hesperia, 119

Psaltriparus minimus californicus, 24, 92

Ptarmigan, Rock, 159

Willow, 159

Ptychoramphus aleuticus, 20, 89, 93

Puffin, Tufted, 87, 88

Puffinus creatopus, 89

griseus, 20, 89

opisthomelas, 20

Pyrrhuloxia sinuata texana, 183

Pyrrhuloxia, Texas, 183

Q

Quail, California, 158

Chestnut-bellied Scaled, 182

Gambel, 93, 158

Mearns, 227

Mountain, 203

Plumed, 83

Scaled, 227

Valley, 17, 22, 156

Querquedula cyanoptera, 21, 217

R

Rail, Light-footed, 157

Yellow, 92

- Raven, American, 23
Western, 91
- Ray, M. S., some further notes from the Tahoe region, 111; some further notes on Sierran field work, 198
- Recurvirostra americana*, 16, 117, 141, 142, 218
- Redhead, 120
- Redshank, 141, 146, 195
- Redtail, Western, 203
- Red-wing, San Diego, 23, 111, 157
- Regulus calendula calendula*, 85, 113, 203
satrapa olivaceus, 85
- Ridgway, R., review of his "color standards and color nomenclature," 131
- Riley, J. H., review of his "birds collected or observed on the expedition of the Alpine Club of Canada to Jasper Park, Yellowhead Pass, and Mount Robson region," 130
- Roadrunner, 92, 157
- Robin, Western, 19, 85, 115, 199, 200, 203
- Ruff, 141, 148, 196
- Rust, H. J., birds new to the vicinity of Lake Coeur d'Alene, Kootenai County, Idaho, 41
- S**
- Salpinctes obsoletus obsoletus*, 24, 85, 92, 210, 226
- Sanderling, 155, 156
- Sandpiper, Baird, 68, 157, 184
Least, 21, 156
Red-backed, 156
Spotted, 22, 115, 139, 148, 155, 156, 203
Western, 156
- Sapsucker, Red-breasted, 83
Sierra, 203
Williamson, 203
- Saunders, A. A., a study of the nesting of the marsh hawk, 99; some notes on the nesting of the short-eared owl, 121; an unusual nest of the sora rail, 128
- Sayornis nigricans*, 23, 91
phoebe, 182
sayus, 23
- Scolopax gallinago*, 194
rusticola, 144, 194
- Scoter, Surf, 21, 156
White-winged, 156
- Selasphorus allenii*, 184, 205
- Shearwater, Black-vented, 20
Pink-footed, 89
Sooty, 20, 89
- Shoveller, 21, 118, 156, 157, 217
- Shrike, California, 18, 50
White-rumped, 232
- Shufeldt, R. W., an introduction to the study of the eggs of the North American Limicolae, 138
- Sialia currucoides*, 85, 203
mexicana anabelae, 188
mexicana occidentalis, 119
sialis, 184
- Siskin, Pine, 82, 129, 203
- Sitta canadensis*, 203
carolinensis aculeata, 85, 119, 203
- Smith, Austin Paul, notes and records from Brooks County, Texas, 182
- Snipe, European, 139, 144, 194
- Wilson, 21, 94, 144, 145
- Snyder, G. K. [with Wright, H. J.], birds observed in the summer of 1912 among the Santa Barbara Islands, 86
- Solitaire, Townsend, 94
- Sora, 21, 112, 128, 154, 156
- Sparrow, Belding, 23, 155, 157
Bell, 23
Brewer, 111
Bryant Marsh, 182
Clay-colored, 121
Desert, 23, 111, 229
English, 154, 157
Gambel, 23, 111
Leconte, 183
Lincoln, 203
Mountain Song, 201, 203
Nuttall, 41
Rufous-crowned, 23, 155, 157
San Diego Song, 23, 157
Santa Barbara Song, 91
Scott, 227
Stephens Fox, 93
Thick-billed Fox, 84, 201, 203
Western Chipping, 23, 83, 157, 203
Western Field, 183
Western Grasshopper, 155, 157
Western Lark, 119, 157
Western Savannah, 157
White-crowned, 83, 111, 137, 198, 203
White-throated, 41
- Spatula clypeata*, 21, 118, 217
- Speotyto cunicularia hypogaea*, 18, 22
- Sphyrapicus thyroideus*, 203
varius daggetti, 83, 203
- Spinus pinus*, 129, 203
- Spizella breweri*, 111
passerina arizonae, 23, 83, 203
pusilla arenacea, 183
- Spoonbill, 217, 220, 224
- Sprig, 217
- Squatarola squatarola*, 22
- Steganopus tricolor*, 113, 139, 142, 184, 193, 200
- Stellula calliope*, 203, 232
- Stephens, F., early nesting of the band-tailed pigeon, 129; nighthawk drinking, 184
- Sterna caspia*, 118
forsteri, 118
maxima, 20
- Stilt, Black-necked, 117, 142, 144, 147, 218
- Stone, W., review of his "the phylogenetic value of color characters in birds," 47
- Strix occidentalis*, 40, 229
- Sturnella neglecta*, 23, 50, 91, 93
- Surf-bird, 5, 22, 157
- Swallow, Bank, 156
Barn, 23, 91, 156

Swallow, Cliff, 14, 23, 154, 156
 Northern Violet-green, 24, 82, 119, 154,
 156
 Rough-winged, 156
 Tree, 23, 84, 113, 203
 Swarth, H. S., the supposed occurrence of the blue goose in California, 43; review of Oberholser's "a revision of the forms of the great blue heron (*Ardea herodias Linnaeus*)," 50; *William Leon Dawson* —a biography, 62; review of Riley's "birds collected or observed on the expedition of the Alpine Club of Canada to Jasper Park, Yellowhead Pass, and Mount Robson region," 130; a revision of the California forms of *Pipilo maculatus* Swainson, with description of a new subspecies, 167; note on the Guadalupe caracara, 228; review of Todd's "a revision of the genus *Chaemepelia*," 231; review of Bailey's "life zones and crop zones of New Mexico," 232

Swift, Vaux, 157
 White-throated, 23, 154, 156

T

Tachycineta bicolor, 198
 thalassina lepida, 24, 119
 Tanager, Cooper, 232
 Western, 23, 82, 84, 157, 203
 Tattler, Wandering, 21, 157
 Taylor, W. P., no-sale of American-killed wild game, 42; report of progress in conservation, 45; synopsis of the recent campaign for the conservation of wild life in California, 125
 Teal, Cinnamon, 21, 154, 156, 217
 Green-winged, 118, 157, 217
 Tern, Black, 112, 118
 Caspian, 118
 Forster, 118, 155, 156, 157
 Royal, 20
 Thayer, E. [and Keyes, V.], review of their "catalogue of a collection of books on ornithology in the library of John E. Thayer," 233
 Thrasher, Bendire, 41
 California, 24
 Palmer, 41
 Pasadena, 156
 Thrush, Russet-backed, 85, 156, 203
 Sierra Hermit, 86, 115, 200, 203
 Willow, 229
 Thryomanes bewickii nesophilus, 92
 Thryothorus ludovicianus, 120
 Titmouse, Plain, 156
 Todd, W. E. C., review of his "a revision of the genus *Chaemepelia*," 231
 Totanus calidris, 141, 146, 195
 flavipes, 195, 204

Tojanus melanoleucus, 21, 195, 196
 pugnax, 196
 totanus, 195
 Towhee, Anthony, 23, 154, 157
 California, 119
 Canyon, 227
 Green-tailed, 84, 203
 Nevada, 173
 Oregon, 172
 Sacramento, 172
 San Clemente, 91, 172
 San Diego, 154
 San Francisco, 171
 Spotted, 167
 Spurred, 157, 170
 Toxostoma bendirei, 41
 curvirostre palmeri, 41
 longirostre sonori, 183
 redivivum, 24
 Treganza, Edward and A. O., the Rocky Mountain pine grosbeak in Utah, 106
 Tringa alpina, 195
 Troglodytes aedon parkmani, 112, 119, 203
 Turkey, Wild, 104
 Turnstone, Black, 7, 22, 156
 Ruddy, 22, 91, 156
 Tyler, J. G., notes on some Fresno County birds, 16; a note on the plumage of the linnet, 184
 Tyrannus verticalis, 110, 116
 vociferans, 23, 110

U

Uria troilus californica, 89

V

Vanellus cristatus, 197
 vanellus, 149, 150, 197
 Vermivora celata celata, 24, 111, 131
 celata lutescens, 24
 celata oreastera, 131
 celata sordida, 24, 92
 rubricapilla gutturalis, 84
 ruficapilla ruficapilla, 183
 Vireo, Cassin, 118
 Hutton, 156
 Plumbeous, 111
 Western Warbling, 84, 118, 156, 198, 203
 Vireo griseus micrus, 183
 Vireosylva gilva swainsoni, 84, 118, 203
 Vulture, Turkey, 22, 156, 218

W

Warbler, Audubon, 24, 81, 85, 113, 199, 200, 203
 Black-throated Gray, 111, 157
 Calaveras, 81, 84, 157
 California Yellow, 84, 156, 157, 203
 Dusky, 24, 92

- Warbler, Golden Pileolated, 85, 157, 203
 Hermit, 198
 Lutescent, 24, 156
 Macgillivray, 85
 Myrtle, 131
 Orange-crowned, 24, 111, 131
 Pileolated, 156, 201
 Yellow, 202
- Warren, E. R., swallows and bed-bugs, 14; notes on some Mesa County, Colorado, birds, 110
- Water-Turkey, 182
- Waxwing, Cedar, 129, 156
- Wetmore, A., notes on certain Kansas birds, 120
- Whimbrel, 143, 148, 150, 196
- Wilder, C. M., Anna hummer in Ferndale, Humboldt County, California, 129
- Willard, F. C., some late nesting notes from the Huachuca Mountains, Arizona, 41; late nesting of certain birds in Arizona, 227; sharp-shinned hawk nesting in Arizona, 229
- Willet, 145, 146
- Western, 145, 146
- Willett, G., bird notes from the coast of northern Lower California, 19; pelagic wanderers, 158; a correction, 184
- Wilsonia pusilla chryseola, 85, 203
 pusilla pileolata, 131
 pusilla pusilla, 131
- Woodcock, American, 141, 144
 European, 144, 194
- Woodpecker, Ant-eating, 227
 Cabanis, 119, 203
 California, 119, 156
- Lewis, 119
 Nuttall, 119, 154, 156
 Willow, 119, 157
 White-headed, 199, 203
- Wren, Dotted Canyon, 157
 Long-billed Marsh, 94
 Parkman, 112, 203
 Rock, 24, 85, 92, 157, 210, 226
- Wren, San Diego, 156
 Santa Cruz Island, 92
 Tule, 157
 Western House, 119, 156
- Wren-tit, 178, 179
- Pallid, 24, 156
- Wright, H. W., the white-tailed kite near Palo Alto, 184; [with Snyder, G. K.], birds observed in the summer of 1912 among the Santa Barbara Islands, 86; the birds of San Martin Island, Lower California, 207; the Sabine Gull in the Santa Barbara Channel, 227; note on the Ashy Petrel, 229
- Wythe, M. W., review of C. C. Keezel's "bird study note book," 232

X

- Xanthocephalus xanthocephalus, 113
 Xema sabini, 227
 Xenopus albolarvatus, 203

Y

- Yellow-legs, Greater, 21, 155, 156, 204, 205
 Lesser, 204, 205
 Yellowshank, 195
 Greater, 196
 Yellowthroat, Pacific, 24
 Tule, 157

Z

- Zamelodia ludoviciana, 188
 melanocephala, 92, 94, 119
 melanocephala capitalis, 203
 Zenaidura macroura, 183
 macroura marginella, 22, 91
 Zonotrichia albicollis, 41
 leucophrys gambeli, 23, 111, 131
 leucophrys leucophrys, 83, 111, 131, 203
 leucophrys nuttalli, 41

